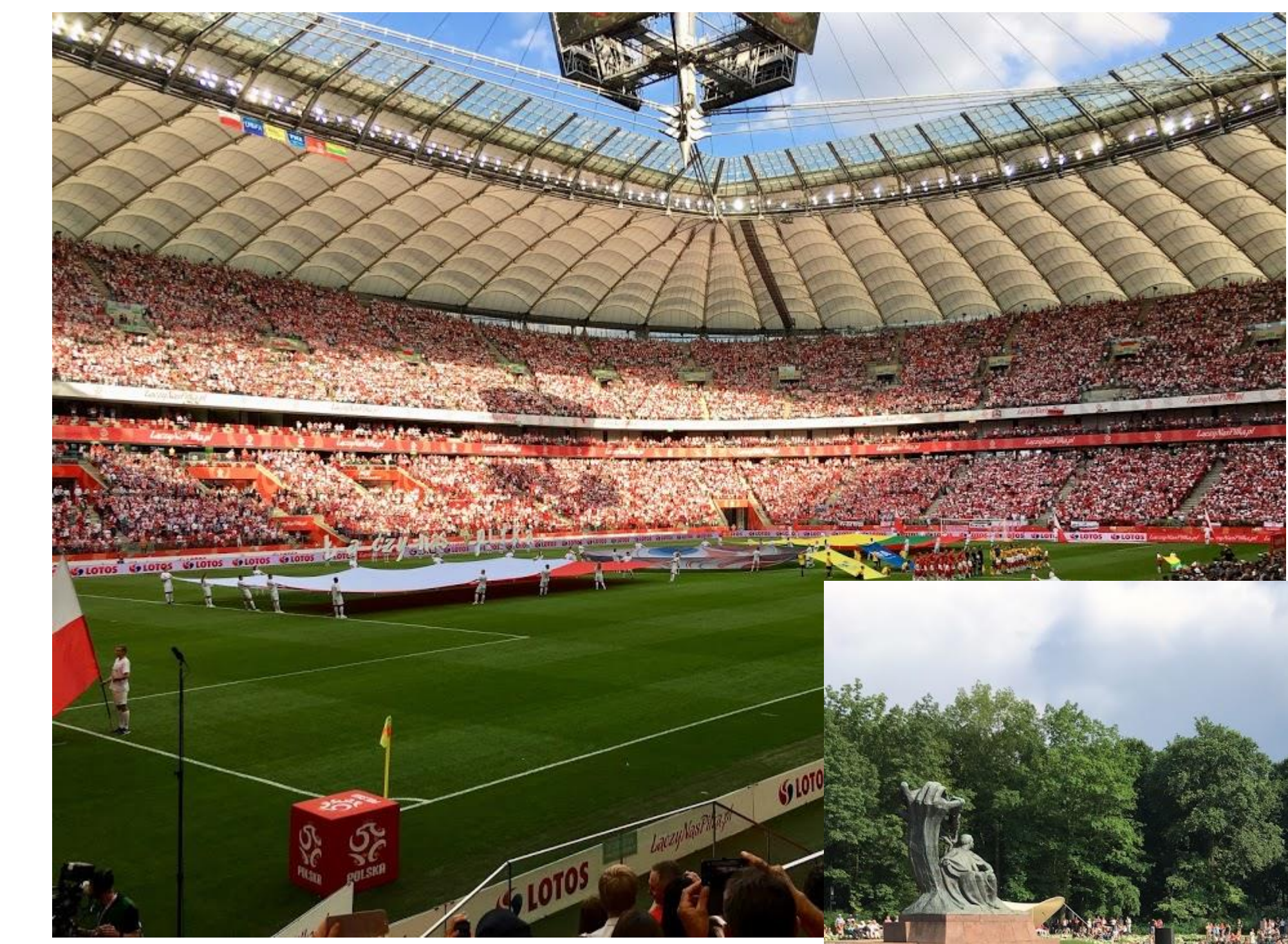


Summer Internship at The Institute of Aviation in Warsaw, Poland

Summary

- Worked at an aviation research institute in Warsaw, Poland
- Worked alongside Polish PhD level aeronautical engineers
- Helped design the test rig for a boundary layer ingestion (BLI) jet engine that aims to reduce aircraft fuel consumption by up to 10%
- Modeled the inlet distortion gauze so that the rig could simulate real-world conditions
- Performed computational fluid dynamics (CFD) on the test environment in order to ensure safe and efficient testing conditions
- Hiked the Swiss Alps for 4 days
- Learned Polish culture and history
- Travelled to 8 Polish cities and 14 cities throughout Europe



Timothy Kirby
Kareem Usher

Mechanical
Engineering

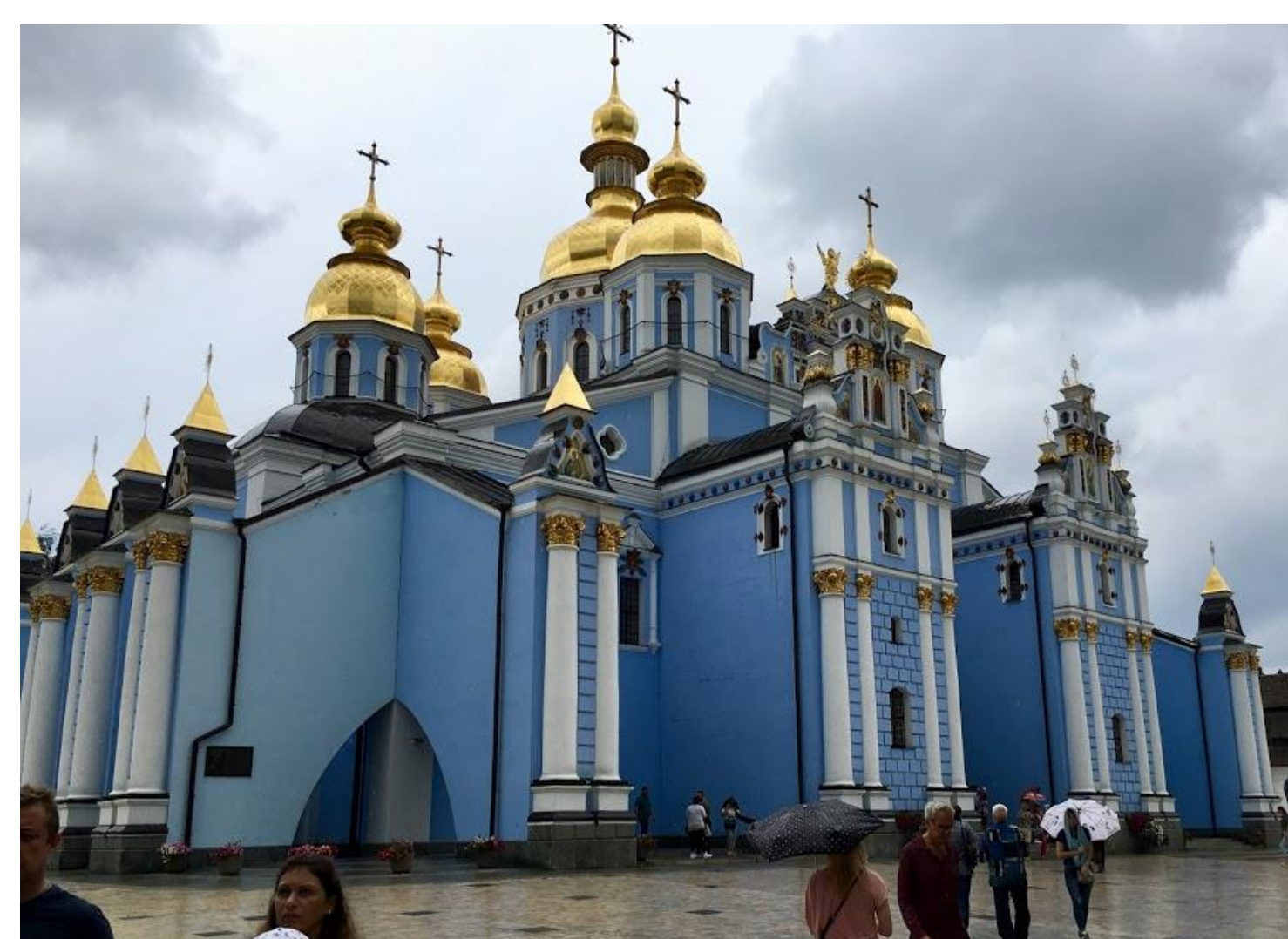


Why this Project?

- Get paid to travel abroad
- Gain real-world aviation R&D experience
- Conduct research in a professional setting
- Learn to interact with people from very different cultures
- The advisors and coworkers were all extremely friendly

Impact on Me?

- Academic
 - Gained valuable research experience
 - Learned new software
 1. ANSYS Fluent
 2. ANSYS SpaceClaim
 3. ANSYS ICEM
 4. Python
- Professional
 - Learned about the aviation industry and can compare to automotive
- Personal
 - Rekindled passion for travel
 - Exposed myself to new cultures and became more comfortable in foreign environments



THE OHIO STATE UNIVERSITY

STEP

Second-year Transformational
Experience Program